

# Fisheries Information System (FIS)

## **NER/NEFSC FIS Partner Brief**

**Presented By: John Witzig / Joan Palmer**

**Date: August 21, 2007**

# Organizational Background

## Responsible for research and management for 15 FMPs

- Northeast multispecies complex (15 species)
- Squid (Ioligo & Illex), mackerel, butterfish
- Summer flounder, scup, black sea bass
- Tilefish
- Red crab
- Herring
- Atlantic Mackerel
- Surfclam / ocean quahog
- Sea Scallops
- Monkfish
- Spiny Dogfish
- Skates
- Bluefish
- Whiting / small mesh fisheries
- Atlantic salmon
- Observer programs are Center activities
- Vessel logbook, landings reports and biological sampling data collections are Region activities supported by the Center
- Data management systems/servers at Center and Region

# Organizational Profile

## Active permits

- Vessel – open access: 12,400 permits to 4222 vessels
- Vessel – limited access: 45,000 permits to 4700 vessels
- Dealer - 5,000 permits to 700 dealers

## Biological Sampling (2005-6):

- 7,869 Samples (~100 fish)
- 591,000 lengths
- 82,607 age structures
- 53 species, 143 market categories, 425 cells

## Reports

- Vessel: average 2001-2006
  - C 186,000 logbooks
  - C 438,000 catch records
  - C 244 species, 40 gears, 3382 vessels (5826 unique vessels)
- Dealer: average 2005 -2006
  - C 337,000 reports
  - C 968,000 transactions
  - C 1.4B lbs; \$1.5B
  - C 457 ports of landing
- Observer:
  - C 33,000 observer trips since 1989
  - C 300,000 hauls
  - C 9 major fisheries
- Highly Migratory Species

# Key Accomplishments

- Conversion of paper-based dealer reporting to electronic reporting
- Northeast Fisheries Information Management System (NE-FIMS) Development
- Prototype electronic vessel reporting system
- Electronic biosampling data logging
- Fisheries Scientific Computing System (research vessels)
- Observer data systems (handheld recording & reporting PDA)
- Joint NE/SE Operator Permit System
- INformationPORTal
- Cooperative Research Study Fleet
- VMS based reporting of catch & discard for US/CAN fisheries

# Major Challenges

- Funding
- Infrastructure
- Staff resources
- Commitment
- Compliance with & enforcement of reporting regulations
- Unreasonable expectations / timeline for implementation
- Emerging quotas
- Recreational fisheries statistics
- Increased use of observer data
- Sector fisheries management
- Integration of data from State collection programs

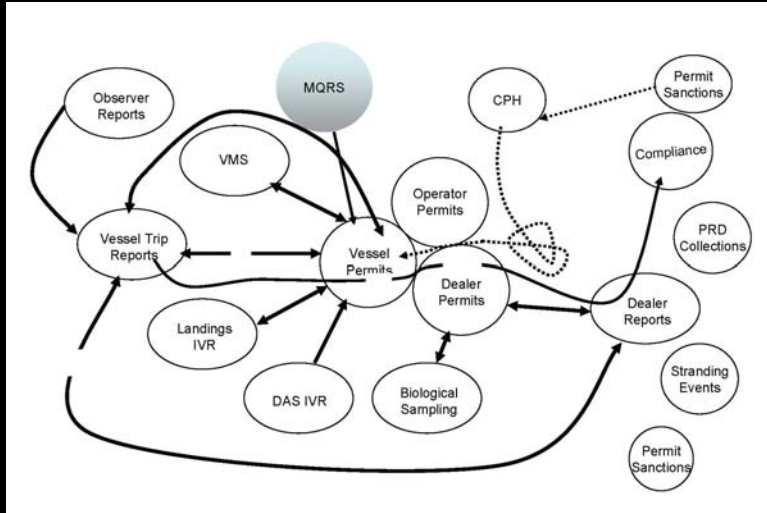
# Planned/Current Regional Initiatives

## Northeast Fisheries Information Management System (NE-FIMS)

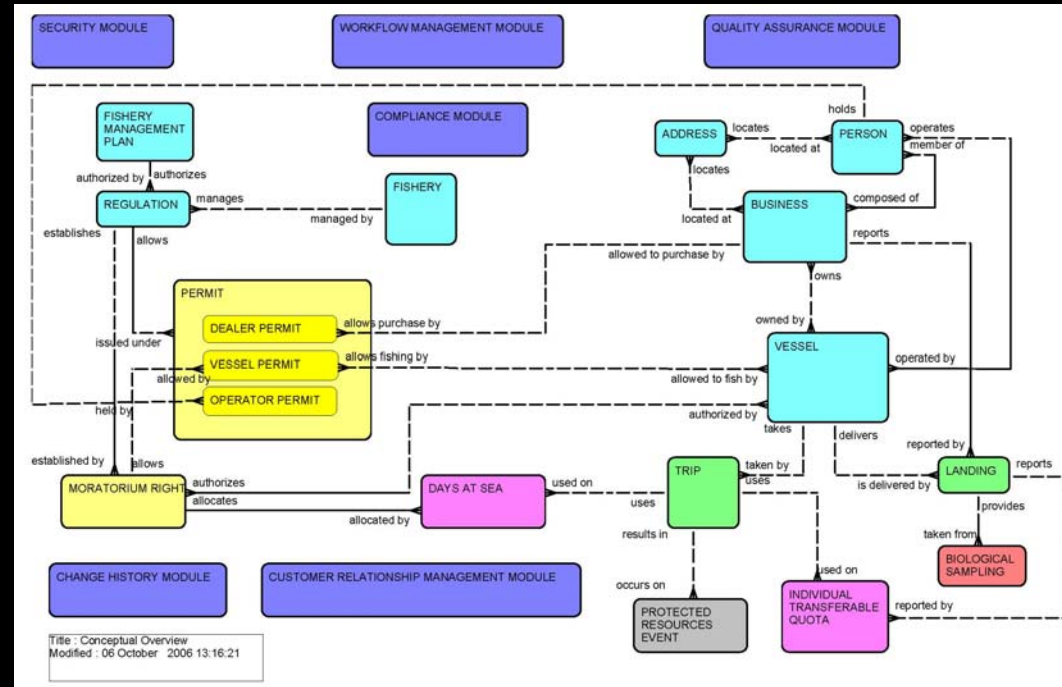
- Initiated in 2005
- Infrastructure Rationalization
- Integration of Region's fishery-dependent collections including:
  - Permits (vessel, dealer, operator, MMPA authorizations, tags, etc).
  - Vessel reporting
  - Dealer reporting
  - Biological sampling
  - Input controls (Days-at-sea, moratorium rights)
  - Observer
- Implementation of Electronic Reporting
  - Dealer (completed in 2004)
  - Logbooks
  - Observers
  - Electronic fish size sampling (in progress)
- Development of QA/QC framework for data collections
  - Dealer Reporting
  - Vessel Reporting
  - Reporting Compliance
- Document management

# NE-FIMS - Status

# As-Is Architecture – 2004



## Target Architecture – Conceptual Model



- 
- **National Permits Integration**
  - **Joint NE/SE Operators Permit System**
  - **Quota Monitoring & Compliance Toolbox**
  - **Moratorium Quota Rights System**
  - **Electronic Permit Documents**

# Questions?

